

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: JERICO POND	Lake Area (ha): 1.62
Town: LANDAFF	Maximum depth (m): 1.3
County: Grafton	Mean depth (m): 0.4
River Basin: Connecticut	Volume (m ³): 7000
Latitude: 44°08'48" N	Relative depth: 0.9
Longitude: 71°50'48" W	Shore configuration: 1.55
Elevation (ft): 1490	Areal water load (m/yr): 36.04
Shore length (m): 700	Flushing rate (yr ⁻¹): 83.20
Watershed area (ha): 128.0	P retention coeff.: 0.41
% watershed ponded: 0.0	Lake type: natural w/dam

BIOLOGICAL:

9 September 1993

DOM. PHYTOPLANKTON (% TOTAL)	#1	DINOBRYON 40%
	#2	
	#3	
PHYTOPLANKTON ABUNDANCE (cells/mL)		305
CHLOROPHYLL-A (µg/L)		1.97
DOM. ZOOPLANKTON (% TOTAL)	#1	VORTICELLA 55%
	#2	DAPHNIA 30%
	#3	
ROTIFERS/LITER		6
MICROCRUSTACEA/LITER		12
ZOOPLANKTON ABUNDANCE (#/L)		40
VASCULAR PLANT ABUNDANCE		Common/Abun
SECCHI DISK TRANSPARENCY (m)		1.3 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)		6.7
BACTERIA (E. coli, #/100 ml)	#1	7
	#2	
	#3	

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m³): None
Anoxic volume (m³): None

CHEMICAL:

Lake: JERICO POND

Town: LANDAFF

		9 September 1993		
DEPTH (m)		1.0		
pH (units)		6.6		
A.N.C. (Alkalinity)		7.8		
NITRATE NITROGEN		< 0.03		
TOTAL KJELDAHL NITROGEN		0.50		
TOTAL PHOSPHORUS		0.015		
CONDUCTIVITY (μ mhos/cm)		34.5		
APPARENT COLOR (cpu)		49		
MAGNESIUM		0.59		
CALCIUM		4.0		
SODIUM		1.4		
POTASSIUM		0.45		
CHLORIDE		< 3		
SULFATE		5		
TN : TP		33		
CALCITE SATURATION INDEX		3.2		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1993

D.O. S.D. PLANT CHL TOTAL CLASS

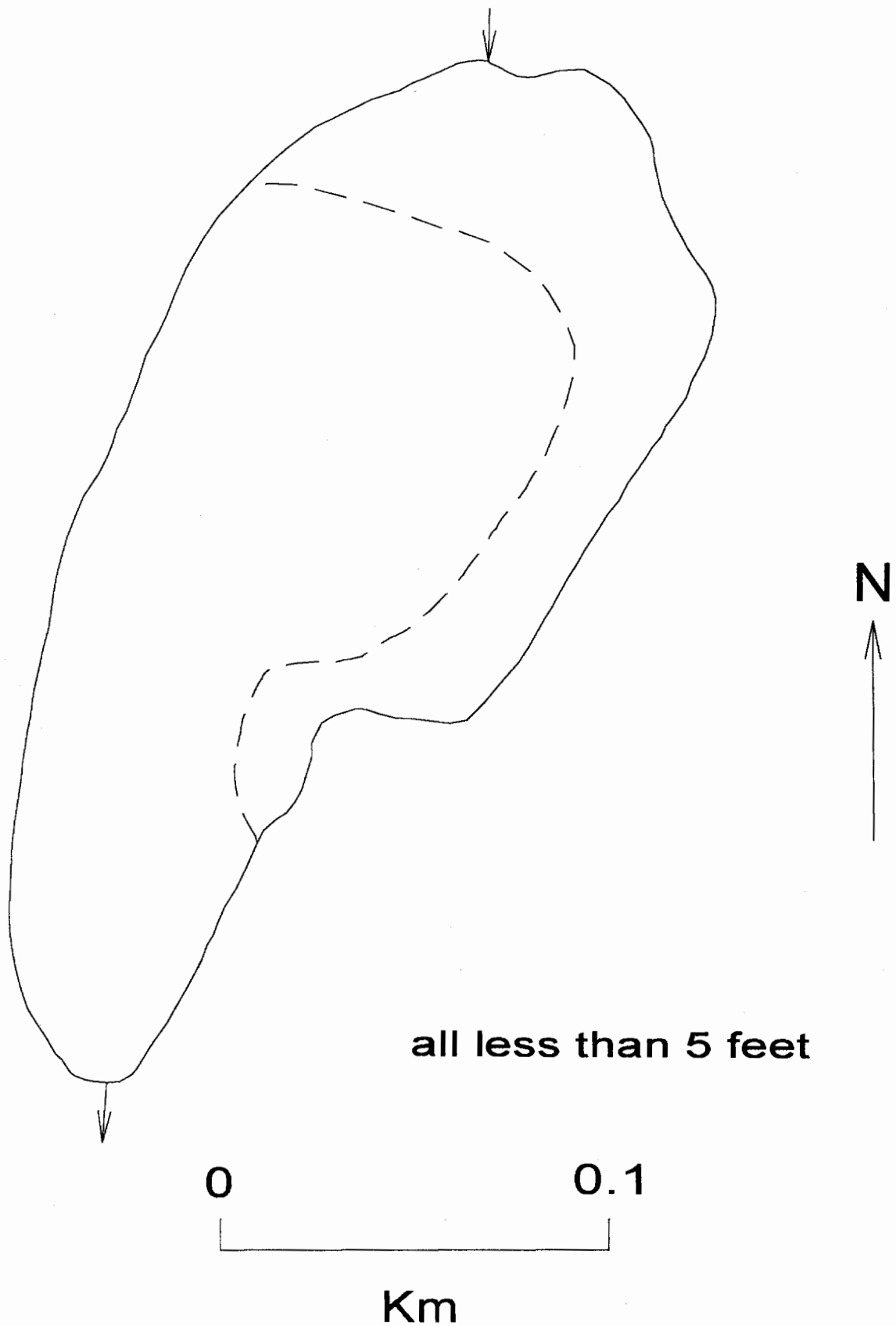
**	2	4	0	6	Meso.
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COMMENTS:

1. This pond was sampled at the request of the NH Fish and Game Department. No winter samples were collected.
2. This is a small, shallow, somewhat remote (4-wheel drive road) pond. It was tea-colored but very clear.
3. Water level was down two feet; the beaver dam was not being maintained by beavers.
4. Cryptomonas (65%) was the dominant wholewater phytoplankton.

Jericho Pond

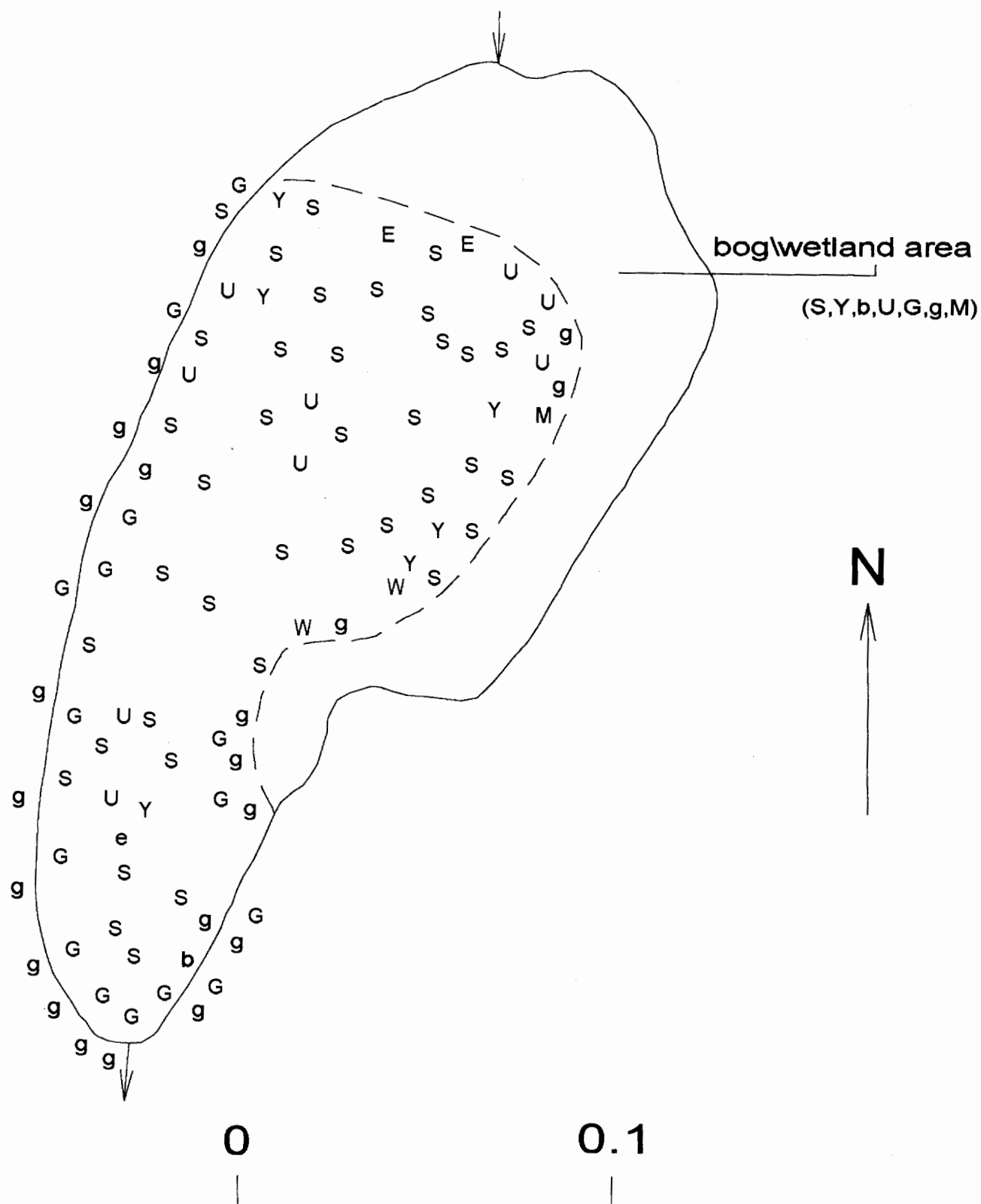
Landaff



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Jericho Pond

Landaff



Km

III-130

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